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S Verma, RK Pankaj, A Leon-Garcia - Computer Communications, 1998 - Elsevier

... the last term can be determined by the scheduling algorithm parameters in advance, the delay **budget** to be ... Here we show that the Lagrange multiplier $n, 0, V_y G$, ie the KuhnTucker optimality **condition** is always ... [8] P. Goyal, HM Vin, Generalized **guaranteed** rate scheduling ...

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User focus in consumer terminals and conditionally **guaranteed** budgets

R Brill, E Steffens - Quality of Service—IWQoS 2001, 2001 - Springer

... To gain back on the cost-effectiveness loss and to compensate -UF for its **budget** loss, -UF receives an additional **budget** with a **conditional guarantee**. This so-called conditionally **guaranteed budget** (CGB) is available to -UF when UF does not use its **budget** margin. ...

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Resource reservation in dynamic real-time systems

[sssup.it](#) [PDF]

L Abeni, G Buttazzo - Real-Time Systems, 2004 - Springer

... In this way, the server remains eligible and the **budget** can be exploited by the pending requests with ... of a task served by a CBS, it is possible to perform a QoS **guarantee** based on ... Such a difference in the frame rate indicates the presence of an overload **condition**; indeed, some ...

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[PDF] Access control for adaptive **reservations** on multi-user systems

[psu.edu](#) [PDF]

T Cucinotta, SS Sant'Anna - Proc. 14th IEEE Real-Time and Embedded ..., 2008 - Citeseer

... utilisat-ion U aggrmin k, that limits the total sum of the mini- mum **guaranteed** utilisations granted ... allowed to occupy in total: $\sum_{i \in S_k} Q(i) P(i) \leq U_{agg k}$; this **condition** must be enforced by the supervision policy (Requirement 5a) while computing the granted **budget** values $\{Q \dots$

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Efficient reclaiming in **reservation**-based real-time systems with variable execution times

[sssup.it](#) [PDF]

M Caccamo, GC Buttazzo, DC Thomas - IEEE Transactions on ..., 2005 - computer.org

... of soft tasks by handling execution overruns, a good trade off consists of assigning server **budget** and period ... runtime exchange performed by BASH, however, does not affect schedulability; thus, the task set can be **guaranteed** using the classical Liu and Layland **condition**: ...

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Aperiodic servers with **resource** constraints

M Caccamo, L Sha - rtss, 2001 - computer.org

... jeopardizing the hard tasks' **guarantee**. ... In this section we first define the rules governing the CBs server with **resource** constraints, CBs-R, that have been informally ... Under the CBs-R, each job J_i starts executing with the server current **budget** cs and the server current deadline ds ...

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Efficient **guaranteed** disk request scheduling with fahrrad

[psu.edu \[PDF\]](#)

A Pevzner, T Kaldewey, S Brandt, R Golding ... - ACM SIGOPS ..., 2008 - portal.acm.org

... scheduler cannot issue request $R_{i,m,n}$ unless job $J_{i,m}$ has enough **budget** remaining for ... Theorem 2 says that in order to **guarantee** the reserved utilization to a request stream regardless ... 4. BASIC FAHRRAD SCHEDULER To meet the **condition** of Theorems 1 and 2, the broker ...

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[PDF] Implementing **resource reservations** in linux

[linuxdevices.com \[PDF\]](#)

L Abern, G Lipari - Real-Time Linux Workshop, 2002 - linuxdevices.com

... fact, a periodic task τ_i with worst case execution time C_i and period T_i is **guaranteed** to respect ... If this **condition** is not verified, the **condition** for ensuring the schedulability of τ_i is more ... ecution (because a job is finished and the next one is not arrived yet) when the **budget** of its ...

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A smart market for **resource reservation** in a multiple quality of service information network

[umich.edu \[PDF\]](#)

JK MacKie-Mason - Ann Arbor - papers.ssrn.com

... I am silent on how long in advance one must reserve **resources**, and on how long the ... Indeed, due to Kirchoff's physical laws it is generally impossible to know or **guarantee** the specific $w_{ij} = 0$ when there are no capacity constraints, I have obtained the excess cost **condition** in (7b) ...

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[PDF] Real-time linux with **budget-based resource reservation**

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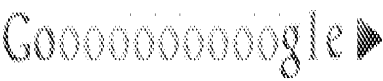
N Perng, C Liu, T Kuo - Journal of information science and engineering, 2006 - Citeseer

... RTAI scheduler (`rt_schedule()`) and timer interrupt handler (`rt_timer_handler()`) must be revised to **guarantee** hard **budget** ... in lines 6 to 15 posts of SIGBUDGET signals, because the **budget** is exhausted. The IF **condition** in line 4 verifies the need for soft **budget-based resource** ...

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... RTAI scheduler (rt_schedule()) and timer interrupt handler (rt_timer_handler()) must be revised to **guarantee** hard **budget** ... in lines 6 to 15 posts of SIGBUDGET signals, because the **budget** is exhausted. The IF **condition** in line 4 verifies the need for soft **budget-based resource** ...

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Local data control and admission control for QoS support in wireless ad hoc networks

[ufl.edu](#) [PDF]

Y Xiao, H Li - IEEE Transactions on Vehicular Technology, 2004 - ieeexplore.ieee.org

... When one priority class's **budget** is **near** zero, new traffic streams (or flows) belonging to ... time transmissions and data transmissions differently is that real-time transmissions need **guaranteed** QoS, whereas ... and) with time, based on the measurements of traffic load **condition**. ...

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Optimal link scheduling on improving best-effort and **guaranteed** services performance in network-on-chip systems

[york.ac.uk](#) [PDF]

LF Leung, CY Tsui - Proceedings of the 43rd annual Design ..., 2006 - portal.acm.org

... The algorithm also considers the **condition** that only finite buffer space is available on the ... buffer space and is not applicable to NoC design with tight area and power **budget**. ... execution time and therefore, the hard deadline requirement of the applications can not be **guaranteed**. ...

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Guaranteed QoS synthesis—an example of a scalable core IP quality of service solution

[psu.edu](#) [PDF]

P Hovell, R Briscoe, G Corlano - BT Technology Journal, 2005 - Springer

... The former services, when multiplexed in sufficient quantities, generate **near** constant bit rate traffic ... control (eg multi-protocol label switching (MPLS)) to alleviate the catastrophic failure **condition**. ... **Guaranteed** QoS synthesis — an example of a scalable core IP quality of service ...

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Solving the **near**-far problem in CDMA-based ad hoc networks* 1

[220.231.93.23 \(PDF\)](#)

A Muqattash, M Krunz, WE Ryan - Ad Hoc Networks, 2003 - Elsevier

... So the solution to the **near**-far problem has to have both elements: power control and medium ...

This is important because it is usually difficult to **guarantee** correct code assignment at all times ...

Energy is a scarce **resource** in MANETs, so it is undesirable to trade off energy for ...

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[PDF] Managing QoS Flows at Task Level in NoG-Based MPSoCs

[puers.br \(PDF\)](#)

E Carara, N Calazans, F Moraes - inf.puers.br

... is only allowed to start if the system can allocate upon request the **resource budget** it requires ...

The priorities mechanism provides a soft **guaranteed** service (latency and bandwidth) to high

priority ... In this **condition**, F1 and F2 throughput decays from 29.91% and 28.83% to 21.95 ...

[Related articles](#) - [View as HTML](#) - [All 2 versions](#)

An efficient random access scheme for OFDMA systems with implicit **message** transmission

PZHH Wang, H Chen - IEEE transactions on wireless ..., 2006 - [ieeexplore.ieee.org](#)

... also alleviate the constraints on power consumption of user terminals when concerning their

link **budget**. ... Similarly, after removing the **condition** on R, then we can get the average access

delay ... the channel, and then add some additional guard samples on q to **guarantee** a good ...

[Cited by 4](#) - [Related articles](#) - [All 3 versions](#)

Multiple multicast groups for multimedia on the Internet

G Parr, K Curran - Information and Software Technology, 1999 - Elsevier

... The round-trip latency **budget** is consumed by the sending computer, the network, and the

receiving ... it requires that client and server are always available and functioning, a **condition** that

is ... The CORBA model is lacking for the class of systems requiring real-time **guarantee** [10]. ...

[Cited by 4](#) - [Related articles](#) - [All 3 versions](#)

Statistical delay **budget** partitioning in wireless mesh networks


NA Abu-All, HS Hassanein - Computer Communications, 2003 - Elsevier

... The algorithms proposed, nevertheless, are either **near**-optimal or heuristics, and provide solutions

for ... to make end-to-end flow based assignments and to **guarantee** allocated service ... first category,

ie, the heuristic algorithms, solve the partition delay **budget** problem heuristically ...

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[PDF] Dynamic qos control based on the qos-ticket model

[psu.edu](#) [PDF]

K Kawachiya, H Tokuda - Proceedings of the 1996 IEEE International ..., 1996 - Citeseer

The most notable characteristic of continuous-media data is the existence of timing constraints. To handle such data appropriately, some system support for resource management and **QOS control** is indispensable. For this reason, we are proposing a "**QOS-Ticket**" ...

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[PDF] QOS-Ticket: A New Resource-Management Mechanism for Dynamic QOS Control of Multimedia

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K Kawachiya, H Tokuda - Proc. Multimedia Japan, 1996 - Citeseer

... JAIST (1994). [23] K. Kawachiya and H. Tokuda: "**Dynamic QOS Control** of Continuous-Media Processing **based on the \"QOS-Ticket\" Model**," (in Japanese), Proc. 7th IPSJ Computer System Symposium, pp. 141{148 (1995) [24 ...

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Evaluation of QOS-Control servers on real-time mach

[psu.edu](#) [PS]

K Kawachiya, M Ogata, N Nishio, H Tokuda - Network and Operating ..., 1995 - Springer

... **Based** on these experiments, we are now designing a "**QOS-Ticket**" model as a new **QOS-control** scheme. References ... 122-131 (1994). 4. H. Tokuda and T. Kitayama: "**Dynamic QOS Control based on Real-Time Threads**," Proc. 4th NOSSDAV, pp. 113-122 (1993). ...

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[PDF] Q-Thread: A New Execution Model for Dynamic QOS Control of Continuous-Media Processing

[psu.edu](#) [PDF]

K Kawachiya, H Tokuda - Proc. NOSSDAV, 1996 - Citeseer

... Dynamically changed within the range period (can be re-speci ed) **based** on the ... Arguments passed User-speci ed Same, plus a **QOS-control** hint ... available computation time Purpose (Soft/hard) Continuous-media processing real-time processing (with **dynamic QOS control**) ...

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[PDF] A Negotiation-Based Resource Management Framework for Dynamic QoS Control

[keio.ac.jp](#) [PDF]

K Kawachiya, H Tokuda - Proceedings Real-Time Mach ..., 1997 - mkg.sfc.keio.ac.jp

... Continuous-Media Processing," Proc. NOSSDAV '96, pp. 149{156 (1996). [3] K. Kawachiya and H. Tokuda: "**Dynamic QOS Control Based on the QOS-Ticket Model**," Proc. IEEE ICMCS '96, pp. 78{85 (1996). [4] MR Garey and ...

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QOS Control of Continuous Media: Architecture and System Support."

K Kawachiya, M Ogata, N Nishio, H Tokuda - IBM Research Report, ..., 1995 - Citeseer

... In this **model**, **QOS control** is achieved through cooperation of the operating system, the **QOS Manager**, and each ... The **QOS-Ticket**, which represents the resource reservation for each session, mediates these activities. ... 41, **Dynamic QoS control based** on real-time threads. ...

[Cited by 8](#) - [Related articles](#) - [Cached](#)

Qos support in tdma-based mobile ad hoc networks

[psu.edu](#) [PDF]

I Jawhar, J Wu - Journal of Computer Science and Technology, 2005 - Springer

... gorithms belong to one of three categories: 1) Reac- tive (on-demand) such as DSR (**Dynamic Source Rout** ... In this section, a DSR-**based** on-demand **QoS** routing protocol designed by Jawhar and Wu[32] is ... The TDMA frame is composed of a **control** phase and a data phase[12]. ...

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Building an adaptive multimedia system using the utility model

[gatech.edu](#) [PDF]

L Chen, S Khan, K Li, E Manning - Parallel and Distributed Processing, 1999 - Springer

... **QOS-Ticket**: A New Resource-Management Mechanism for **Dynamic QOS Control** of Multimedia ...

Nobushiko Nishio and Hideyuki Tokuda, **QOS** Translation and Session Coordination Tech ... Davis, "System-level Resource Management for Net- work-**based** Multimedia Applications ...

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[PDF] QoS mapping for networked virtual reality system

[psu.edu](#) [PDF]

S Oh, D Kado, K Fujikawa, T Matsuura, S ... - ... and **Control** of Network ..., 1997 - Citeseer

... is, network Quality of Service (**QoS**), it also makes a large virtual space **model** intractable and ...

loP) as a de nition of an application level **QoS** which is **based** on the ... In related studies on **QoS** adaptation for video ob jects, 5,6 proposed **dynamic QoS control models** for continuous ...

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[PDF] Implementation of multimedia systems based on a real-time extension of Estelle

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S Fischer - Formal Description Techniques IX (Theory, application ..., 1996 - Citeseer

... International Standard ISO 9074. Kawachiya, K. and Tokuda, H. (1996). **Dynamic QOS Control**

Based on the **QOS-Ticket Model**. In IEEE Int. Conference on Multimedia Computing and Systems (ICMCS'96), Hiroshima, Japan. IEEE Computer Society Press. Koymans, R. (1990). ...

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